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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,305	09/24/2001	Su-jong Jeong	P56519	5355

7590

10/25/2002

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EXAMINER

LEE, SUSAN SHUK YIN

ART UNIT

PAPER NUMBER

2852

DATE MAILED: 10/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

MP  
Ab

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	09/960,305		JEONG	
	<b>Examiner</b>		<b>Art Unit</b>	
	Susan S. Lee		2852	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 3, 5, 7, 8, 10, 11, 13, 15, 16, 18, 21 and 23 is/are rejected.
- 7) ☒ Claim(s) 2, 4, 6, 9, 12, 14, 17, 19, 20, 22, 24 and 25 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____.  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____. | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 5, 7, 8, 10, 11, 13, 15, 16, 21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kunishi et al. (5,991,557) in view of Jeong et al. (6,246,847).

Kunishi et al. discloses an image forming apparatus with a photosensitive body 10, a charging roller 11, a developing unit 13 with a developing roller, an image exposing means 15, a transfer means 14; and a charging bias voltage source 40. The image forming apparatus have two modes of printing, a character image formation mode which uses a low tone reproductivity and a photograph mode which uses a higher tone reproductivity. The charging bias voltage varies according to which mode is selected, that is the frequency of the voltage of the first mode is lower than that of the second mode. Note abstract; column 3, line 60 – column 5, line 22; and column 12, lines 1-42.

Kunishi et al. differs from the instant invention by not disclosing a power supply unit for supplying power to the developer roller, the scanning unit, the transfer device.

Jeong et al. discloses a power supply unit 140 for supplying a power to the charging roller 130, developing roller 110, laser scanning unit 150, a transfer roller 180, the opc drum 190; and a controller 160. Note abstract.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Kunishi et al. with that of Jeong et al. so that one power supply unit can be used to supply power to the various components of an image forming apparatus so that the system can be more compact and simplified.

Claims 3 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kunishi et al. (557) in view of Jeong et al. (847) as applied to claims 1, 5, 7, 8, 10, 11, 13, 15, 16, 21, and 23 above, and further in view of Kajiwara et al. (6,339,476).

Kunishi et al., as modified by Jeong et al., differ from the instant invention by not disclosing the selection of 600 dpi and 1200 dpi.

Kajiwara et al. discloses it is old in the art to have an image forming apparatus with a normal mode having a main scan resolution of 600 dpi and a sub-scan resolution of 600 dpi and a high quality mode having a main scan of 1200 dpi, and a sub-scan resolution of 1200 dpi. Note column 11, lines 11-16.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Kunishi et al. in view of Jeong et al. with that of Kajiwara et al. so that an image forming apparatus can have the capability to produce copies with a lower resolution such as 600 dpi to conserve toner or to produce copies with a higher resolution such as 1200 dpi to produce high quality prints.

***Allowable Subject Matter***

Claims 2, 4, 6, 9, 12, 14, 17, 19, 20, 22, 24, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ohki, Maekawa et al., Yoshinaga et al. (589), and Yoshinaga et al. (Japan, 533) disclose art in image forming apparatus with printing of different resolutions or modes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 703-308-2138. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 703-308-1373. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

Art Unit: 2852

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



Susan S. Lee  
Primary Examiner  
Art Unit 2852

sl  
October 21, 2002